

Approved For Release 2001/09/03 : CIA-RDP86-00244R000100200019-4
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
PUBLIC HEALTH SERVICE
ENVIRONMENTAL HEALTH SERVICE
NATIONAL AIR POLLUTION CONTROL ADMINISTRATION

Date: June 8, 1970
Reply to
Attn of: FF - DA
Subject: Combustall Incinerators (Supplemental information)
To: All Federal Agencies

1. Reference our letter dated November 26, 1969 reporting test results of the Combustall incinerators manufactured by Air Preheater Company of Wellsville, New York.
2. The Air Preheater Company has requested that we accept their published capacity ratings for Type 0 and 2 waste.
3. Although the incinerators have not been tested according to "Specifications for Incinerator Testing at Federal Facilities", while burning Types 0 and 2 waste, it is believed they will meet the following manufacturer's capacity schedule and not exceed Federal emission standards.

MODEL	TYPE WASTE			AUX BURNER size for type 2 waste 1000 BTU/hr	COMMENTS
	0	1	2		
200	150	200	300	200	Mechanical loader required for Models 800 and larger in order to realize manufacturer's rated capacity.
400	300	400	550	300	
600	450	600	775	400	
800	600	800	1000	500	
1000	750	1000	1250	600	
1200	900	1200	1600	700	

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4. Our reasons are as follows:

- a. The Combustall incinerator, model 800, met the standards when tested according to "Specifications for Incinerator Testing at Federal Facilities", at the manufacturers' specified capacity of 800 lbs. per hour for Type 1 waste.
- b. When burning Type 0 or Type 2 waste the total Btu heat release of the incinerator is no more than that produced when burning Type 1 waste.
- c. Although firing conditions are slightly altered for burning the various types of waste, (proportionately more underfire air is supplied and an auxiliary burner is provided when burning Type 2 waste), test results for New York State certification although not officially recognized by NAPCA, show that any variance in emission rates when burning Type 0 and 2 waste are still within Federal limits. Since the time of the New York State certification tests Air Preheater has further reduced emissions on their "above 200 lbs. per hour" models, by increasing stack diameter and thereby increasing residence time.

5. It should be noted, that contract specifications should specify the type of waste being burned so that incinerator air adjustments can be set at the factory (if resetting in the field should be required the manufacturer may be contacted). Also it should be noted that auxiliary burners are to be furnished when burning Type 2 waste and that mechanical loaders are required for the models 800 and above capacities in order to realize the manufacturer's rated capacity.

F. Winkler

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